

**CLAIMS**

[001] Device for production of a beverage by infusion of a ground product, comprising an infusion chamber (2) able to receive the ground product, a circuit of hot water crossing 5 aforementioned infusion chamber (2) and means for circulating the hot water in the circuit, characterized in that circulation means are reversible so that hot water can be circulated through infusion chamber (2) during beverage production in the opposite direction.

10 [002] Device according to claim 1, in which the circulation means are a pump (8) whose direction of operation is controlled so as to form the means for reversing hot water circulation through infusion chamber (2).

15 [003] Device according to claim 1 or claim 2 characterized in that the hot water circuit includes an extraction circuit (11) crossing infusion chamber (2) and a peripheral circuit (9) parallel to extraction circuit (11) between an inlet valve (5), upstream of infusion chamber (2), and an outlet valve 20 (6), downstream of infusion chamber (2), aforementioned valves (5, 6) being configured to allow closed loop circulation in extraction circuit (11) and peripheral circuit (9).

25 [004] Device according to claim 3 characterized in that inlet valve (5) has a line connected to hot water supply (7).

[005] Device according to claim 4 characterized in that outlet valve (6) has a line connected to beverage outlet (10).

[006] Device according to claim 3 characterized in that extraction circuit (11) and peripheral circuit (9) have an overall volume corresponding to that of the beverage to be produced.

5 [007] Coffee machine for use with prepackaged doses (1) of ground coffee characterized in that it includes a device according to any of claims 1 to 6.

10 [008] Process for producing a beverage by infusion of a ground product, in which the ground product is introduced into an infusion chamber (2) and hot water is circulated through the aforementioned infusion chamber (2), characterized in that during the production of the beverage, the circulation of hot water is stopped and the direction of circulation through infusion chamber (2) is  
15 reversed.